Fig. 1

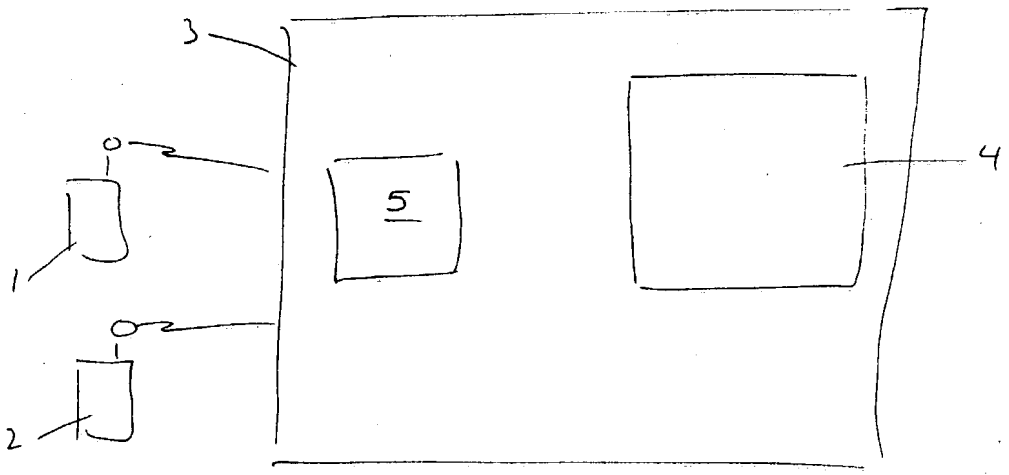


Fig. 2

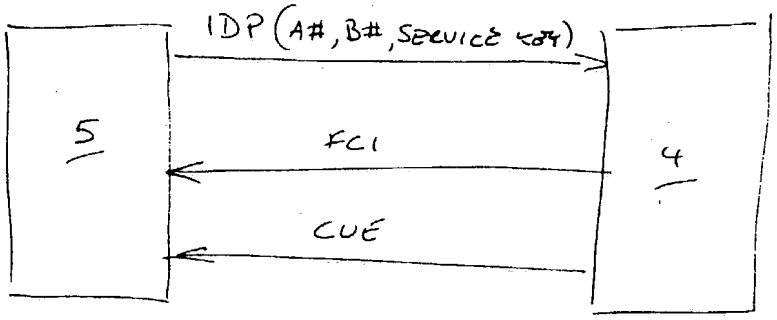


Fig 3

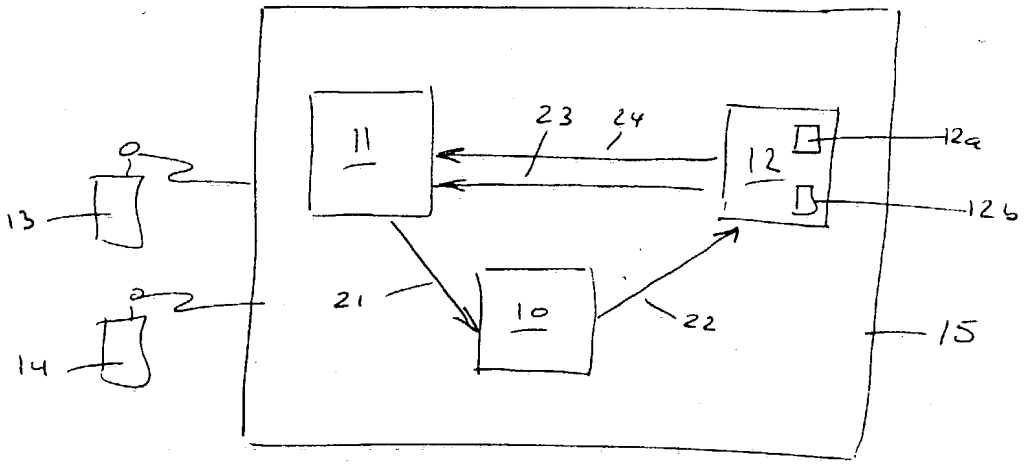
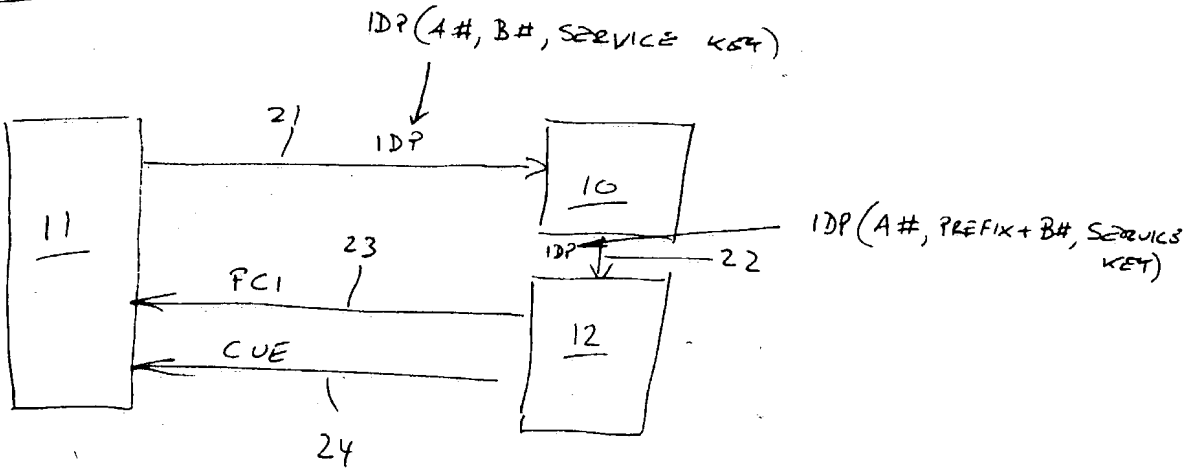
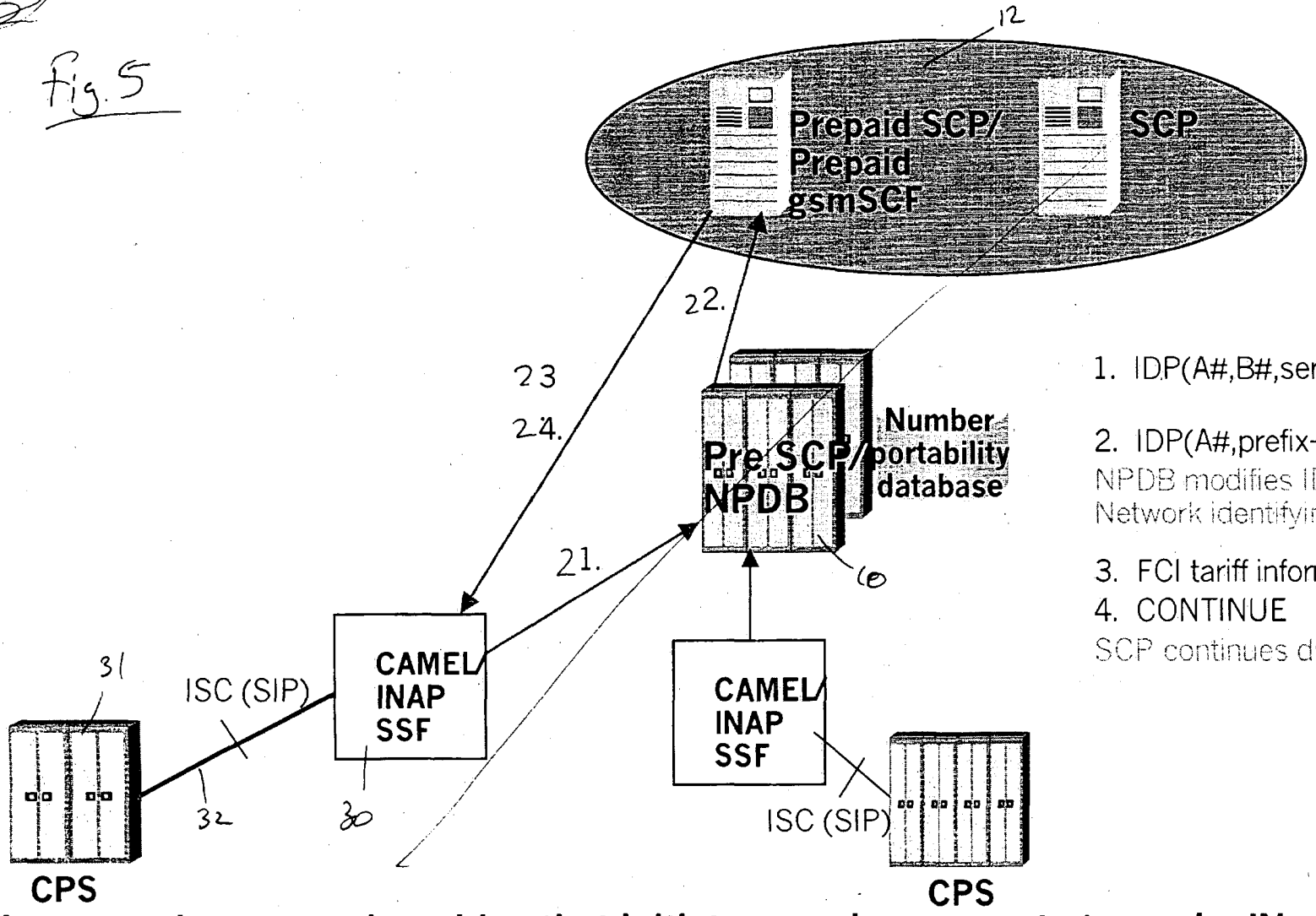

11
23
24
12
12a
12b
13
21
10
22
14
15

Fig. 4


IDP (A#, B#, SERVICE KEY)
21
IDP
11
10
IDP (A#, PREFIX + B#, SERVICE KEY)
23
IDP
22
FCI
12
CUE
24

All-IP ; NP with CAP/INAP

fig. 5



1. IDP(A#,B#,service key)

2. IDP(A#,prefix+B#,service key)
NPDB modifies IDP with subscrip
Network identifying prefix

3. FCI tariff information
4. CONTINUE
SCP continues dialoque with SSP

Interrogating network entities that initiates service requests towards IN system

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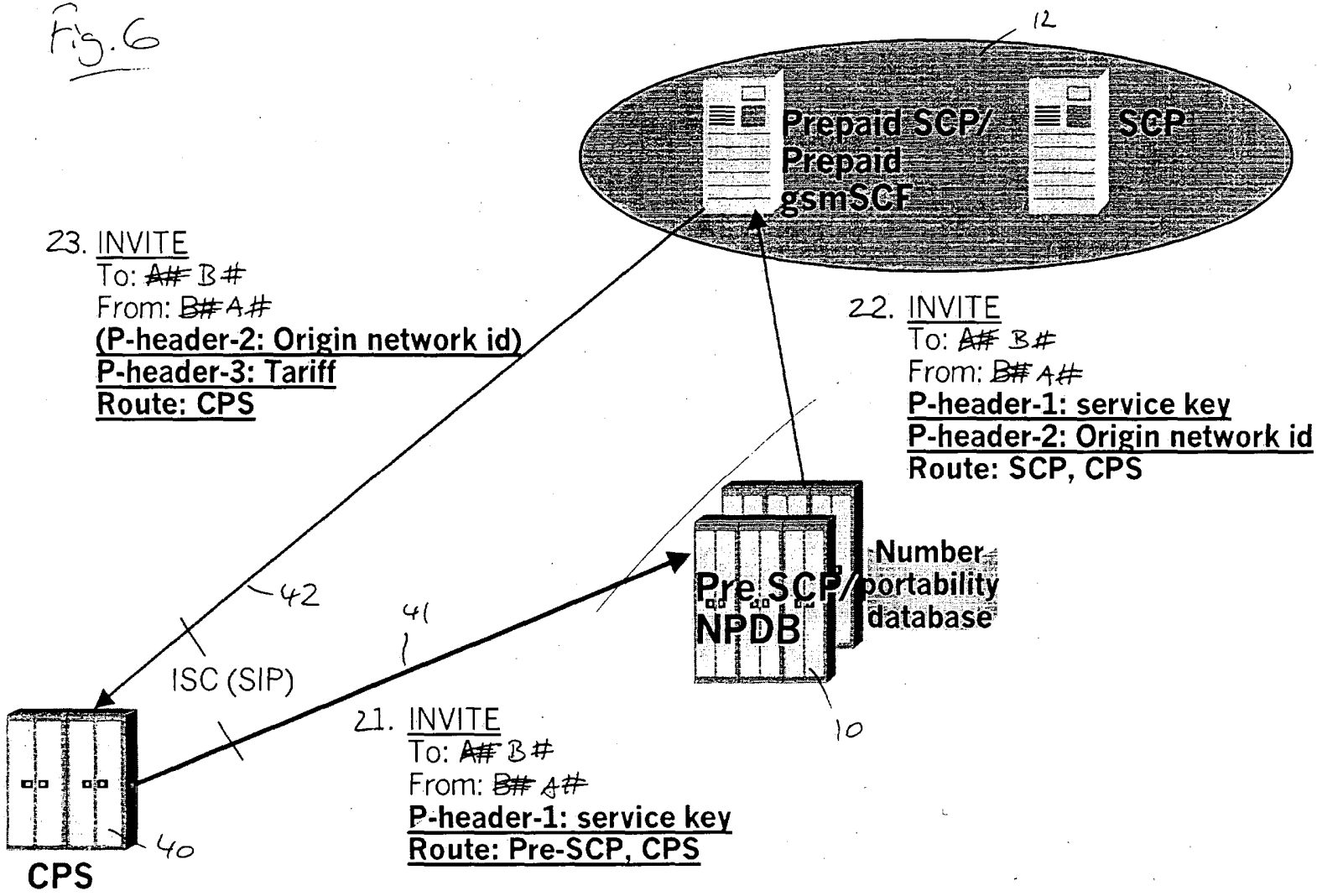
All-IP ; NP with ISC/SIP

Fig. 6



Interrogating network entities that initiates service requests towards IN system

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Fig. 7A

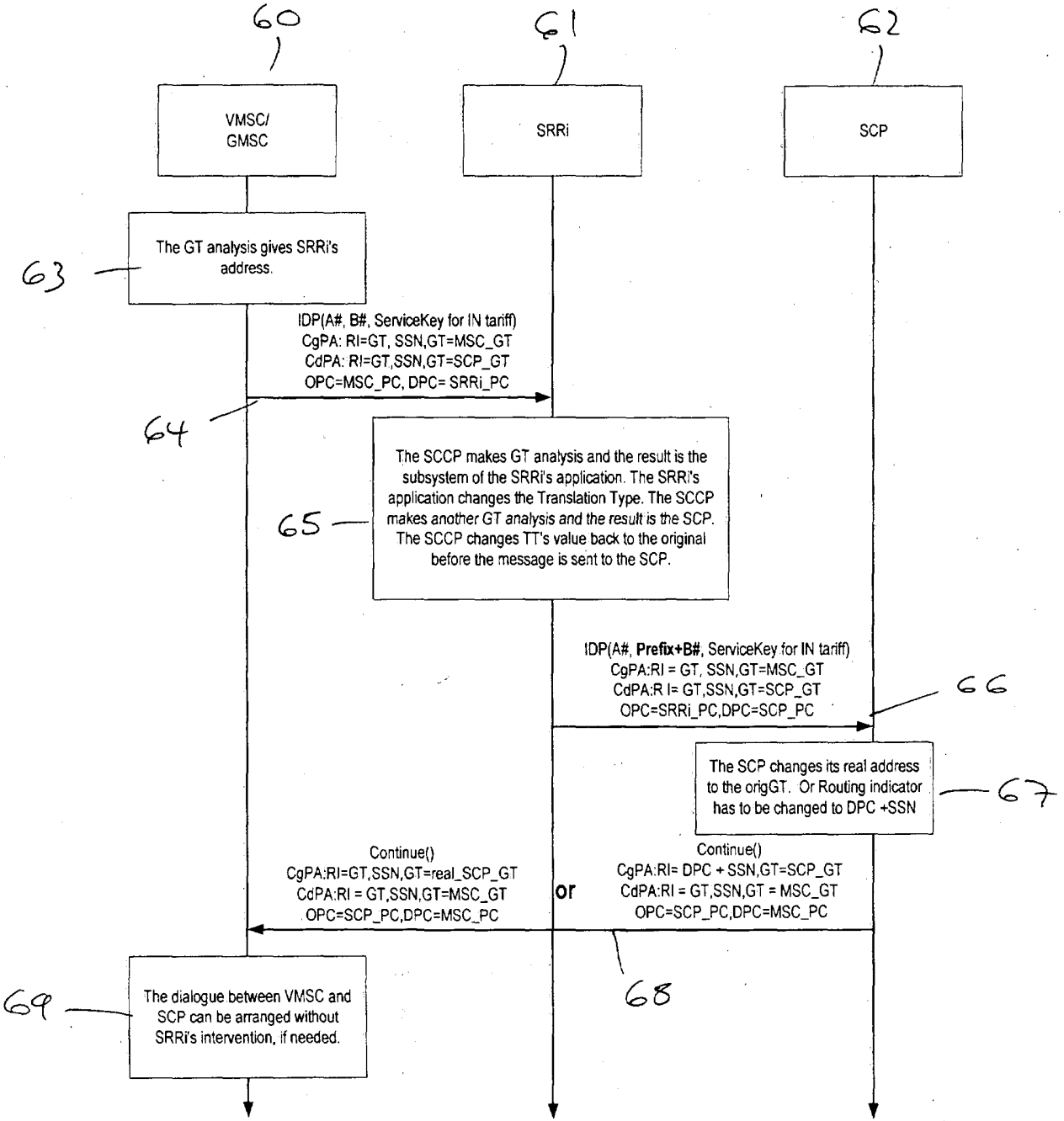
60
61
62
VMSC/
GMSC
SRRi
SCP
The GT analysis gives SRRi's address.
63
IDP(A#, B#, ServiceKey for IN tariff)
CgPA: RI=GT, SSN,GT=MSC_GT
CdPA: RI=GT,SSN,GT=SCP_GT
OPC=MSC_PC, DPC= SRRi_PC
64
The SCCP makes GT analysis and the result is the subsystem of the SRRi's application. The SRRi's application changes the Translation Type. The SCCP makes another GT analysis and the result is the SCP. The SCCP changes TT's value back to the original before the message is sent to the SCP.
65
IDP(A#, Prefix+B#, ServiceKey for IN tariff)
CgPA:RI = GT, SSN,GT=MSC_GT
CdPA:R I= GT,SSN,GT=SCP_GT
OPC=SRRi_PC,DPC=SCP_PC
66
The SCP changes its real address to the origGT. Or Routing indicator has to be changed to DPC +SSN
67
Continue()
CgPA:RI=GT,SSN,GT=real_SCP_GT
CdPA:RI = GT,SSN,GT=MSC_GT
OPC=SCP_PC,DPC=MSC_PC
or
Continue()
CgPA:RI= DPC + SSN,GT=SCP_GT
CdPA:RI = GT,SSN,GT = MSC_GT
OPC=SCP_PC,DPC=MSC_PC
68
69
The dialogue between VMSC and SCP can be arranged without SRRi's intervention, if needed.

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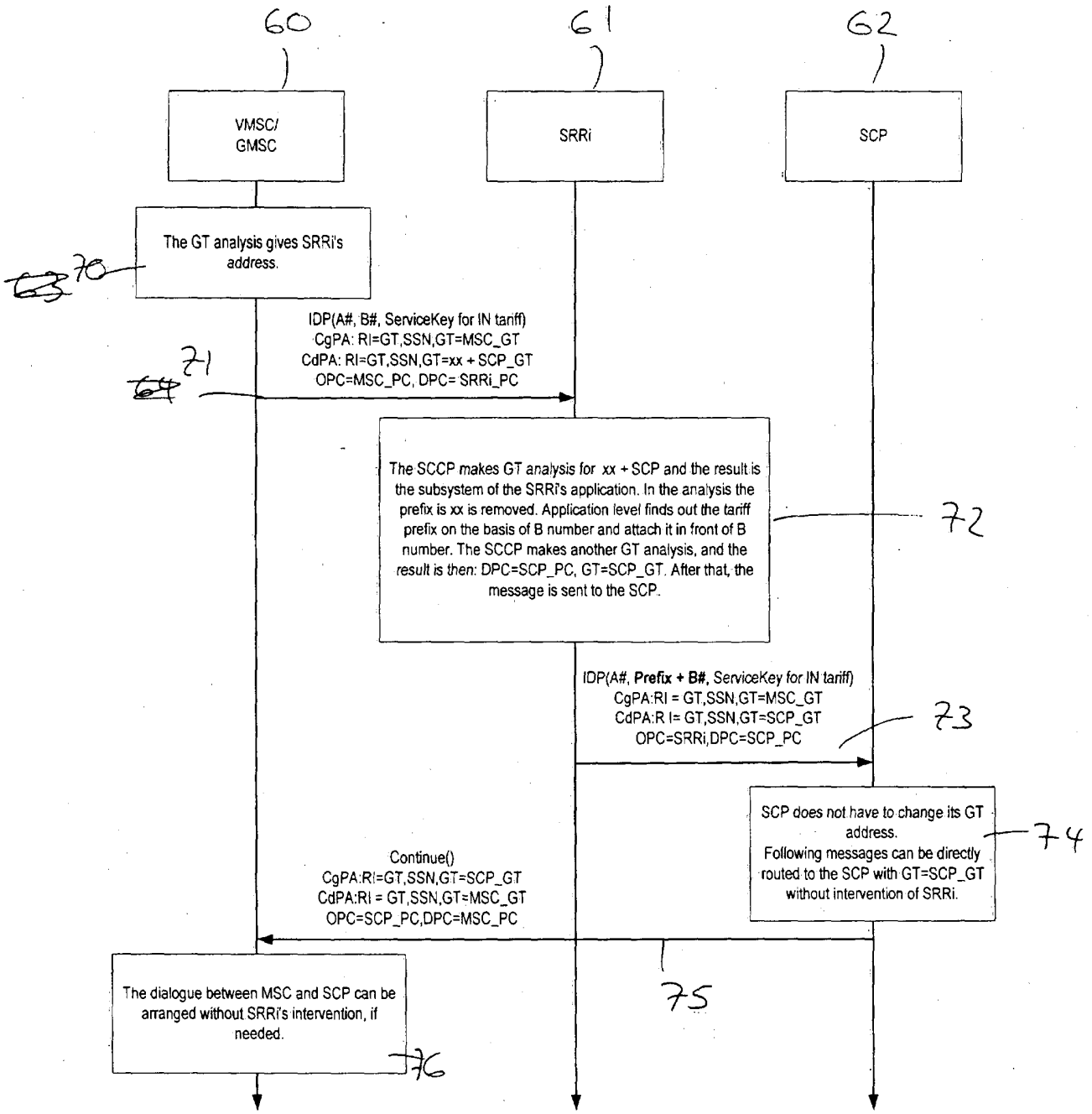
Fig. 7B


60
61
62
VMSC/
GMSC
SRRi
SCP
The GT analysis gives SRRi's address.
70
IDP(A#, B#, ServiceKey for IN tariff)
CgPA: RI=GT,SSN,GT=MSC_GT
CdPA: RI=GT,SSN,GT=xx + SCP_GT
OPC=MSC_PC, DPC= SRRi_PC
71
The SCCP makes GT analysis for xx + SCP and the result is the subsystem of the SRRi's application. In the analysis the prefix is xx is removed. Application level finds out the tariff prefix on the basis of B number and attach it in front of B number. The SCCP makes another GT analysis, and the result is then: DPC=SCP_PC, GT=SCP_GT. After that, the message is sent to the SCP.
72
IDP(A#, Prefix + B#, ServiceKey for IN tariff)
CgPA:RI = GT,SSN,GT=MSC_GT
CdPA:R I= GT,SSN,GT=SCP_GT
OPC=SRRi,DPC=SCP_PC
73
SCP does not have to change its GT address.
Following messages can be directly routed to the SCP with GT=SCP_GT without intervention of SRRi.
74
Continue()
CgPA:RI=GT,SSN,GT=SCP_GT
CdPA:RI = GT,SSN,GT=MSC_GT
OPC=SCP_PC,DPC=MSC_PC
75
The dialogue between MSC and SCP can be arranged without SRRi's intervention, if needed.
76

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